

Appl. No.: 10/691,803

Amdt. Date: May.22, 2006

Reply to: the Office Action of Feb. 22, 2006

Amendments to the Claims

Claim 1 (original): An electrical connector assembly comprising:

an electrical connector for holding an IC package with a plurality of conductive members, the electrical connector comprising a base receiving a plurality of terminals for engaging corresponding conductive members;

an actuator mounted on the electrical connector and comprising a frame;
and

at least one latch comprising a body, the body provided on the frame and having a latching portion to hold on the base so as to hold the actuator on the electrical connector together.

Claim 2 (original): The electrical connector assembly of claim 1, wherein the body is pivotally disposed on the frame, the latching portion is formed at one end of the body.

Claim 3 (original): The electrical connector assembly of claim 2, wherein the frame defines an opening and bores at opposite sides of the opening, the body defines a through hole corresponding to the bores.

Claim 4 (original): The electrical connector assembly of claim 3, wherein the actuator further comprises a spring member and a shaft, the frame defines a receiving recess in an inner side of the opening, the body defines a accommodating recess corresponding to the receiving recess, the receiving recess and the accommodating recess cooperatively receive and compress the spring member, the through hole and the bores cooperatively receive the shaft so as to pivotally attach said at least one latch to the frame.

Appl. No.: 10/691,803

Amdt. Date: May.22, 2006

Reply to: the Office Action of Feb. 22, 2006

Claim 5 (original): The electrical connector assembly of claim 1, wherein the body is integrally disposed on the frame, the latching portion is formed at one end of the body.

Claim 6 (original): The electrical connector assembly of claim 5, wherein the body is resiliently movable relative to the frame and forms a handle portion on a side thereof.

Claim 7 (original): The electrical connector assembly of claim 1, wherein the base defines a cutout at one edge thereof and forms an engaging portion in the cutout.

Claim 8 (currently amended): The electrical connector assembly of claim 1, wherein the electrical connector further comprises a cover slidably mounted on the base, a lid movably attached to the base, transmitting members movably attached to the base and the lid and adapted for transmitting a force acted on the lid to the cover to urge the cover to slide relative to the base from a first position to a second position, and spring members disposed on the base and the lid and adapted for urging the lid to drive the cover to slide relative to the base from the second position to the first position via said transmitting members.

Claim 9 (original): The electrical connector assembly of claim 1, wherein the actuator further comprises a twin urging member rotatably installed on the frame, said twin urging member comprises a large cam and a small cam with a common shaft immovably connected to the large cam.

Claim 10 (original): The electrical connector assembly of claim 9, wherein the large cam is provided with an urging lever connected to an edge thereof and the small cam comprises a planar edge surface and a curve edge surface.

Appl. No.: 10/691,803

Amdt. Date: May.22, 2006

Reply to: the Office Action of Feb. 22, 2006

Claim 11 (currently amended): An electrical connector assembly comprising:

an electrical connector comprising a base, a cover horizontally slidably mounted on the base, and a lid vertically movably held on the base and urging the cover to move relative to the base between a ~~[[fist]]~~ first position and a second position;

an actuator mounted on the electrical connector and urging the lid to drive the cover to move relative to the base between the fist position and the second position; and

an actuator assembled to the housing;

at least one latch having one end disposed on the actuator and held on, and another end forming a latching portion adapted to hold on the base of the electrical connector, thereby holding the actuator on the electrical connector.

Claim 12 (canceled)

Claim 13 (currently amended): The electrical connector assembly of claim ~~[[12]]~~ 11, wherein the one end of the body is pivotally disposed on the actuator.

Claim 14 (original): The electrical connector assembly of claim 13, wherein the actuator comprises a frame, the frame defines an opening and bores at opposite sides of the opening, the one end of the body defines a through hole corresponding to the bores.

Claim 15 (original): The electrical connector assembly of claim 14, wherein the actuator further comprises a spring member and a shaft, the frame defines a receiving recess in an inner side of the opening and the one end of the body defines an accommodating recess corresponding to the receiving recess, the receiving recess and the accommodating recess

Appl. No.: 10/691,803

Amdt. Date: May.22, 2006

Reply to: the Office Action of Feb. 22, 2006

cooperatively receive and compress the spring member, the through hole and the bores cooperatively receive the shaft so as to pivotally attach the at least one latch to the frame.

Claim 16 (currently amended): The electrical connector assembly of claim ~~[[12]]~~ 11, wherein the one end of body is integrally disposed on the ~~[[frame]]~~ actuator.

Claim 17 (original): The electrical connector assembly of claim 16, wherein the body is resiliently movable relative to the frame and forms a handle portion on a side thereof.

Claim 18 (original): The electrical connector assembly of claim 11, wherein the base defines a cutout at one edge thereof, and an engaging portion in the cutout.

Claim 19 (original): An electrical connector assembly comprising:

an electrical connector comprising a base receiving a plurality of terminals, a lid vertically movably attached to the base, a cover horizontally movably attached to the base, and a transmitting system provided between the lid and the cover to convert a vertical movement of the lid to a horizontal movement of the cover;

an IC package installed upon the cover of the electrical connector, the IC package having a plurality of conductive members for engaging corresponding terminals;

a heat sink mounted above the IC package;

an actuator positioned upon the lid; and

a retention mechanism mounted on the actuator and equipped with a

Appl. No.: 10/691,803

Amdt. Date: May.22, 2006

Reply to: the Office Action of Feb. 22, 2006

resiliency device to urge the heat sink toward and further to tightly abut against the IC package;

the actuator releasably latched to the base so as to hold the actuator on the electrical connector; wherein

said actuator actuates the lid to move the cover via said transmission system.

Claim 20 (original): The assembly of claim 19, wherein said connector includes at least one spring to urge the lid upwardly away from the base while said actuator includes a moveable urging device to urge the lid downwardly toward the base for resisting said spring.